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      Dr. Leland W. K. Chung

<120> Regulatory Elements in the Treatment of
   Disease and the Discovery of Therapeutics

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<210> 3
<211> 251
<212> PRT
<213> Coturnix coturnix

<400> 3
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1               5                   10                  15
Tyr Lys Ser Pro Phe Asp Phe Asn Ala Gly Val Asp Arg Thr Tyr Leu
            20                  25                  30
Tyr Leu Ser Pro Gly Ile Asn Leu Thr Pro Pro Gly Ser Pro Thr Leu
        35                  40                  45
Thr Lys Ser Gly Leu Leu Arg Thr Asp Ser Ile Pro Glu Val Gly Glu
    50                  55                  60
Asp Ala Ala Ala Thr Val Gly Met Ser Glu Thr Leu Ser Glu Glu Glu
65                  70                  75                  80
Gln Asn Glu Leu Arg Lys Glu Leu Ala Lys Val Glu Glu Glu Ile Gln
                85                  90                  95
Thr Leu Ser Gln Val Leu Ala Ala Lys Glu Lys His Leu Ala Glu Ile
            100                 105                 110
Lys Arg Lys Leu Gly Ile Asn Ser Leu Gln Glu Leu Lys Gln Asn Ile
        115                 120                 125
Thr Lys Ser Trp Gln Asp Val Thr Ser Thr Ala Ala Tyr Lys Lys Thr
    130                 135                 140
Ser Glu Thr Leu Ser Gln Ala Gly Gln Lys Ala Ser Ala Ala Phe Ser
145                 150                 155                 160
Ser Val Gly Ser Val Leu Ser Lys Lys Phe Glu Asp Val Lys Leu Gln
                165                 170                 175
Ala Phe Ser His Ser Phe Ser Ile Arg Ser Ile Gln His Ser Ile Ser
            180                 185                 190
Met Pro Ile Met Arg Asn Ser Pro Thr Phe Lys Ser Phe Glu Glu Lys
        195                 200                 205
Val Glu Thr Leu Lys Ser Lys Val Gly Gly Ser Lys Pro Ala Ser Gly
    210                 215                 220
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Asp Phe Gly Glu Val Leu Asn Ser Ala Ala Asn Ala Ser Ala Thr Glu
225   230   235   240
Thr Ile Ala Glu Glu Thr Gln Glu Glu Thr His
            245   250

<210> 4
<211> 224
<212> PRT
<213> Mus Musculus

<400> 4
Met Glu Cys Arg Asp Met Glu Leu Ala Asp Asp Tyr Gln Ser Pro Phe
 1   5   10   15
Asp Phe Asp Ser Gly Val Asn Lys Asn Tyr Leu Tyr Leu Ser Pro Ser
            20   25   30
Gly Asn Thr Ser Pro Pro Gly Ser Pro Thr Gln Asn Val Gly Leu Leu
        35   40   45
Lys Thr Glu Pro Val Ala Glu Glu Gly Glu Asp Ala Val Thr Met Ile
    50   55   60
Ser Ala Pro Glu Ala Leu Thr Glu Glu Gln Glu Glu Leu Arg Arg
65   70   75   80
Glu Leu Thr Lys Val Glu Glu Glu Ile Gln Thr Leu Ser Gln Val Leu
            85   90   95
Ala Ala Lys Glu Lys His Leu Ala Glu Ile Lys Arg Lys Leu Gly Ile
            100   105   110
Ser Ser Leu Gln Glu Phe Lys Gln Asn Ile Ala Lys Gly Trp Gln Asp
        115   120   125
Val Thr Ala Thr Asn Ala Tyr Lys Lys Thr Ser Glu Thr Leu Ser Gln
    130   135   140
Ala Gly Gln Lys Ala Ser Ala Ala Phe Ser Ser Val Gly Ser Val Ile
145   150   155   160
Thr Lys Lys Leu Glu Asp Val Lys Asn Ser Pro Thr Phe Lys Ser Phe
            165   170   175
Glu Glu Lys Val Glu Asn Leu Lys Ser Lys Val Gly Gly Ala Lys Pro
            180   185   190
Ala Gly Gly Asp Phe Gly Glu Val Leu Asn Ser Thr Ala Asn Ala Thr
        195   200   205
Ser Thr Met Thr Thr Glu Pro Pro Pro Glu Gln Met Thr Glu Ser Pro
    210   215   220

<210> 5
<211> 224
<212> PRT
<213> Homo Sapiens

<400> 5
Met Asp Cys Arg Glu Met Asp Leu Tyr Glu Asp Tyr Gln Ser Pro Phe
 1   5   10   15
Asp Phe Asp Ala Gly Val Asn Lys Ser Tyr Leu Tyr Leu Ser Pro Ser
            20   25   30
Gly Asn Ser Ser Pro Pro Gly Ser Pro Thr Leu Gln Lys Phe Gly Leu
        35   40   45
Leu Arg Thr Asp Pro Val Pro Glu Glu Gly Glu Asp Val Ala Ala Thr
    50   55   60
Ile Ser Ala Thr Glu Thr Leu Ser Glu Glu Gln Glu Glu Leu Arg
65   70   75   80
Arg Glu Leu Ala Lys Val Glu Glu Glu Ile Gln Thr Leu Ser Gln Val
            85   90   95
Leu Ala Ala Lys Glu Lys His Leu Ala Glu Ile Lys Arg Lys Leu Gly
            100   105   110
Ile Asn Ser Leu Gln Glu Leu Lys Gln Asn Ile Ala Lys Gly Trp Gln
                            Page 56

```
              115                    120                    125
Asp Val Thr Ala Thr Ser Ala Tyr Lys Lys Thr Ser Glu Thr Leu Ser
         130                    135                    140
Gln Ala Gly Gln Lys Ala Ser Ala Ala Phe Ser Ser Val Gly Ser Val
145                    150                    155                    160
Ile Thr Lys Lys Leu Glu Asp Val Lys Asn Ser Pro Thr Phe Lys Ser
                  165                    170                    175
Phe Glu Glu Lys Val Glu Asn Leu Lys Ser Lys Val Gly Gly Thr Lys
         180                    185                    190
Pro Ala Gly Gly Asp Phe Gly Glu Val Leu Asn Ser Ala Ala Asn Ala
         195                    200                    205
Ser Ala Thr Thr Thr Glu Pro Leu Pro Glu Lys Thr Gln Glu Ser Leu
         210                    215                    220
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<210> 6
<211> 184
<212> PRT
<213> Homo Sapiens

<400> 6

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Met Asp Arg Gly Glu Gln Gly Leu Leu Arg Thr Asp Pro Val Pro Glu
1                 5                    10                     15
Glu Gly Glu Asp Val Ala Ala Thr Ile Ser Ala Thr Glu Thr Leu Ser
              20                    25                     30
Glu Glu Glu Gln Glu Glu Leu Arg Arg Glu Leu Ala Lys Val Glu Glu
         35                    40                     45
Glu Ile Gln Thr Leu Ser Gln Val Leu Ala Ala Lys Glu Lys His Leu
         50                    55                     60
Ala Glu Ile Lys Arg Lys Leu Gly Ile Asn Ser Leu Gln Glu Leu Lys
65                    70                     75                     80
Gln Asn Ile Ala Lys Gly Trp Gln Asp Val Thr Ala Thr Ser Ala Tyr
                  85                    90                     95
Lys Lys Thr Ser Glu Thr Leu Ser Gln Ala Gly Gln Lys Ala Ser Ala
              100                    105                    110
Ala Phe Ser Ser Val Gly Ser Val Ile Thr Lys Lys Leu Glu Asp Val
              115                    120                    125
Lys Asn Ser Pro Thr Phe Lys Ser Phe Glu Glu Lys Val Glu Asn Leu
         130                    135                    140
Lys Ser Lys Val Gly Gly Thr Lys Pro Ala Gly Gly Asp Phe Gly Glu
145                    150                    155                    160
Val Leu Asn Ser Ala Ala Asn Ala Ser Ala Thr Thr Thr Glu Pro Leu
                  165                    170                    175
Pro Glu Lys Thr Gln Glu Ser Leu
              180
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<210> 7
<211> 248
<212> PRT
<213> Homo sapiens

<400> 7

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Met Thr Pro Arg Glu Ser Ala Pro Gly Arg Gly Arg Ala Ala Pro Pro
1                 5                    10                     15
Arg Pro Thr Pro Leu Gly Val Gly Thr Ser Arg Glu Ser Pro Ala Glu
              20                    25                     30
Ala Arg Arg Ser Ser Ala Arg Arg Gly Gly Arg Ser Glu Pro Gly Arg
         35                    40                     45
Ala Ala Gly Gly Gly Ala Ala Glu Asp Thr Arg Arg Arg Ala Gly Asp
         50                    55                     60
Met Asp Arg Gly Glu Gln Gly Leu Leu Arg Thr Asp Pro Val Pro Glu
65                    70                     75                     80
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Glu Gly Glu Asp Val Ala Ala Thr Ile Ser Ala Thr Glu Thr Leu Ser
            85   90   95
Glu Glu Glu Gln Glu Glu Leu Arg Arg Glu Leu Ala Lys Val Glu Glu
            100   105   110
Glu Ile Gln Thr Leu Ser Gln Val Leu Ala Ala Lys Glu Lys His Leu
            115   120   125
Ala Glu Ile Lys Arg Lys Leu Gly Ile Asn Ser Leu Gln Glu Leu Lys
            130   135   140
Gln Asn Ile Ala Lys Gly Trp Gln Asp Val Thr Ala Thr Ser Ala Tyr
145   150   155   160
Lys Lys Thr Ser Glu Thr Leu Ser Gln Ala Gly Gln Lys Ala Ser Ala
            165   170   175
Ala Phe Ser Ser Val Gly Ser Val Ile Thr Lys Lys Leu Glu Asp Val
            180   185   190
Lys Asn Ser Pro Thr Phe Lys Ser Phe Glu Glu Lys Val Glu Asn Leu
            195   200   205
Lys Ser Lys Val Gly Gly Thr Lys Pro Ala Gly Gly Asp Phe Gly Glu
            210   215   220
Val Leu Asn Ser Ala Ala Asn Ala Ser Ala Thr Thr Thr Glu Pro Leu
225   230   235   240
Pro Glu Lys Thr Gln Glu Ser Leu
            245

<210> 8
<211> 184
<212> PRT
<213> Oryctolagus cuniculus

<400> 8
Met Asp Arg Gly Glu Gln Gly Leu Leu Arg Thr Asp Thr Val Pro Glu
 1   5   10   15
Glu Ala Glu Asp Ala Ala Ala Thr Ile Ser Ala Thr Glu Thr Leu Ser
            20   25   30
Glu Glu Glu Gln Glu Glu Leu Arg Arg Glu Leu Ala Lys Val Glu Glu
            35   40   45
Glu Ile Gln Thr Leu Ser Gln Val Leu Ala Ala Arg Glu Lys His Leu
    50   55   60
Ala Glu Ile Lys Arg Lys Leu Gly Ile Asn Ser Leu Gln Glu Leu Lys
65   70   75   80
Gln Asn Ile Ala Lys Gly Trp Gln Asp Val Thr Ala Thr Ser Ala Tyr
            85   90   95
Lys Lys Thr Ser Glu Thr Leu Ser Gln Ala Gly Gln Lys Ala Ser Ala
            100   105   110
Ala Phe Ser Ser Val Gly Ser Val Ile Thr Lys Lys Leu Glu Asp Val
            115   120   125
Lys Asn Ser Pro Thr Phe Lys Ser Phe Glu Glu Lys Val Glu Asn Leu
            130   135   140
Lys Ser Lys Val Gly Gly Thr Lys Pro Ala Gly Gly Asp Phe Gly Glu
145   150   155   160
Val Leu Asn Ser Thr Ala Asn Ala Ser Ala Thr Ser Gly Glu Pro Val
            165   170   175
Pro Glu Gln Thr Gln Glu Gly Leu
            180

<210> 9
<211> 185
<212> PRT
<213> Mus musculus

<400> 9
Met Asp Arg Gly Glu Gln Gly Leu Leu Lys Thr Glu Pro Val Ala Glu

```
 1              5                  10                   15
Glu Gly Glu Asp Ala Val Thr Met Leu Ser Ala Pro Glu Ala Leu Thr
            20                  25                  30
Glu Glu Glu Gln Glu Glu Leu Arg Arg Glu Leu Thr Lys Val Glu Glu
        35                  40                  45
Glu Ile Gln Thr Leu Ser Gln Val Leu Ala Ala Lys Glu Lys His Leu
    50                  55                  60
Ala Glu Ile Lys Arg Lys Leu Gly Ile Ser Ser Leu Gln Glu Phe Lys
65                  70                  75                  80
Gln Asn Ile Ala Lys Gly Trp Gln Asp Val Thr Ala Thr Asn Ala Tyr
                85                  90                  95
Lys Lys Thr Ser Glu Thr Leu Ser Gln Ala Gly Gln Lys Ala Ser Ala
            100                 105                 110
Ala Phe Ser Ser Val Gly Ser Val Ile Thr Lys Lys Leu Glu Asp Val
            115                 120                 125
Lys Asn Ser Pro Thr Phe Lys Ser Phe Glu Glu Lys Val Glu Asn Leu
        130                 135                 140
Lys Ser Lys Val Gly Gly Ala Lys Pro Ala Gly Gly Asp Phe Gly Glu
145                 150                 155                 160
Val Leu Asn Ser Thr Ala Asn Ala Thr Ser Thr Met Thr Thr Glu Pro
                165                 170                 175
Pro Pro Glu Gln Met Thr Glu Ser Pro
            180                 185
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<210> 10
<211> 32
<212> DNA
<213> Artificial Sequence

<400> 10
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<210> 11
<211> 33
<212> DNA
<213> Artificial Sequence

<400> 11
caaatttctg aagagtaggt gatccgggtg gag   33

<210> 12
<211> 34
<212> DNA
<213> Artificial Sequence

<400> 12
tctaaagtag ggggaaccaa gcctgctggt ggtg   34

<210> 13
<211> 34
<212> DNA
<213> Artificial Sequence

<400> 13
actgatagat ggaatttatt aagcttttca catg   34

<210> 14
<211> 33
<212> DNA
<213> Artificial Sequence

<400> 14

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<210> 15
<211> 37
<212> DNA
<213> Artificial Sequence

<400> 15
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<210> 16
<211> 18
<212> DNA
<213> Artificial Sequence

<400> 16
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<210> 17
<211> 20
<212> DNA
<213> Artificial Sequence

<400> 17
ggggatttag agggttctgt   20

<210> 18
<211> 22
<212> DNA
<213> Artificial Sequence

<400> 18
gcctgaactg tttgtacctc tg   22

<210> 19
<211> 24
<212> DNA
<213> Artificial Sequence

<400> 19
gagtaggtga tccgggtgga gatg   24